



**Appendix A**  
(new claims to be added)

21. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein an electronic serial number (ESN) allows each element within the matrix to be securely and accurately tracked, inventoried or controlled, either through a local control loop or remotely, by an authorized application or agency.

22. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein an electronic serial number includes the basis for digital encryption of information passed between the PFN device and the controlling entity with local network processing nodes through public communications channels such as the phone lines or Internet initiated in many cases wirelessly from mobile PFNs accompanied by their Mobile Identification Number.

B 1 23. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein this programmable software and/or any other accountable software program that performs automated and remote control and/or robotics functions as a result of programming that can authorize, authenticate and preserves commands and save feedback data as a TRAC software program and proprietary to this technology and its nature and scope.

24. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein at least one non-volatile memory storage and controlled events are in secured environments so that it is highly tamper resistant through physical means and equally protected through electrical means and tamper resistant software programming to become an agreed upon standard for accountable reliable and trusted software commands and record keeping for passive and aggressive remote control and robotics to analyze, judge, evaluate, value, appraise and monitor, manage and control at least one of vehicle use, machine use, equipment use, facility or installation functions, perform financial transactions in real time and in stationary and mobile settings.

25. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein accountable data is provided to an E-mail address web site and/or through the use of the World Wide Web and/or Internet Protocol (IP) for at least one of financial purposes, government uses, service providers, social purposes, environmental purposes.

26. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein at least one of modular and programmable routines are determined by the existing hardware and operating system firmware or software for any application responsively connectable through any communication medium by querying each component device attached through a PFN/TRAC system and/or piece of equipment to determine if said connectable component is legitimate and cleared for safe public use.

27. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein a registry includes all applicable government agencies with their own access to the Registry and/or network with encrypted codes and Identity command strings which are

communicative and also access for the general public and their Private Encrypted Identity codes (PINs, etc.) access to same said registry.

28. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein a registry is accessible by a plurality of manufacturers on a worldwide scale with a plurality of security protocols in the marketing of component, devices and equipment and manufacture must provide a program to be given authorization for sale, and wherein the registry will not activate either the component device and/or piece of equipment without authorization, and resale of the component device or piece of equipment will be requested upon each connectable and queried to respond to the nature of the new install as the registry is contacted and requested to activate the unit.

29. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein a registry including encryption on the Web will support any and all payment industry software.

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31. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein record keeping requires at least one of terminal and device electrical serial numbers and personal identification numbers as part of its authorization and authentication program with the time date and any geographic location coordinates or address of all the equipment and systems participating or performing entries or accessing any application folder or event file in storage at any location or part of the registry.

32. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein a host piece of equipment will not operate any of its accessories unless it is provided the correct signal from the registry or a security network, and wherein commercial off the shelf (COTS) products utilize the security functions, resulting in immediate and cost effective conversions.

33. (NEW) A portable primary focal node (PFN) tracking device that is worn by an individual and reports a location to at least one web address through a public server gateway node, or publicly owned provider node using any type of communication system, an additional claim is made for the networking use of any multi-communication capable PFN to relay or repeat shorter range signals for personally worn PFN devices.

34. (NEW) A real-time or equipment management system according to claim 1 that serves as an accountable end user instruction center or audio tutor to deliver E-learning and educational programming via the PFN TRAC System and discretely.

35. (NEW) A real-time or equipment management system according to claim 1 that can be converted to the highest government and military security protocols, e.g., DES and DET, for national security public safety, nation briefing functions.

36. (NEW) A real-time or equipment management system according to claim 1 that provides write one-time memory storage locally as a secure accountable function to track and identify the source of any tampering or hacking to the PFN/TRAC System.

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Concl. 37. (NEW) A real-time vehicle or equipment management system according to claim 1 that provides an accountable plug, play, and program interface and prioritizes, control of all on board equipment OEM electronics or carried on electronic devices interfaced with the vehicle or host equipment, and additionally records for at least one of: use of time, location, voice information or data transmitted in the application specific event recorder.

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**Appendix B**  
(complete set of pending claims)

1. A real-time vehicle or equipment management system including a primary focal node (PFN), comprising:

at least one sensory device monitoring and reporting on data including command function results of at least one of peripheral devices and equipment with application specific data and optional application specific geographic coordinates corresponding to the application specific data;

at least one memory, operatively connected to said at least one sensory device, and located in or on the vehicle or the equipment, storing a plurality of interface protocols for interfacing and communicating, said memory equipped with at least one of an application specific backup device and a redundant memory function recording application specific automated and remote control command strings to the peripheral devices that perform automated and remote control functions;

at least one processor responsively connectable to said at least one memory, and implementing the plurality of interface protocols for interfacing and communicating with the plurality of external devices;

a plurality of external devices supported by at least one interface for C.O.T.S. products and accessories, the plurality of external devices interfacing with said at least one processor via at least one of the plurality of interface protocols, including at least one of: pagers, wireless phones, radio frequency equipment, locating equipment systems, cordless phones, laptops, one-way communication device, two-way communication device, and computer organizers, at least one of said plurality of external devices including a report back capability to report the data collected by said at least one sensory device to at least one remote location including the application specific data that is stored in the PFN; and

at least one two-way communication system including at least one security device or routine to condition the signal with at least one security protocol including at least one encryption technology to securely interface between at least one of the plurality of external devices and said at least one processor.

2. A real-time vehicle or equipment management system including an optional security function that restricts unauthorized access thereto, comprising:

at least one operation sensor recording the operations of the at least one of the vehicle and equipment as a recording signal;

a memory storing the operations of the vehicle or the equipment received from said operation sensor in a secure manner; and

a processor responsively connectable to said memory, receiving the recording signal,

at least one communication device reporting or transferring data to at least one remote monitoring and control system with transmission of the data being optionally two-way transmission for memory storage recording of remote control commands, the recording signal from at least one of operation sensor, audio data records and visual data records, said at least one communication device comprising at least one of:

a two-way pager responsively connectable via at least one of a processor and a computer stored in a secured manner and capable of transmitting data to download to at least one remote monitoring system;

a wireless telephone responsively connectable via the at least one processor and computer stored in a secure manner and capable of transmitting data to download to the at least one remote monitoring system;

a radio frequency transceiver responsively connectable to the at least one processor and computer stored in a secure manner and capable of transmitting data to download to the at least one remote monitoring system;

a physical connector interface port responsively connectable to the at least one processor and computer and at least one of protected, shielded and maintained in a secure manner, and capable of transferring data to download to the at least one remote monitoring system;

an optical light data transmission port responsively connectable to the at least one processor and computer and securely maintained, and capable of transmitting data to download to the at least one remote monitoring system;

a multi-tasking law enforcement device capable, optionally through electronic security protocols, to communicate with the at least one processor and computer and download to the at least one remote location;

at least one processor and computer responsively connectable to at least one memory and at least one auxiliary communication device in a secure manner that can be processed to any other communication device responsively connectable to the processor or computer to download the data to the at least one remote monitoring system;

at least one processor and computer responsively connectable to a Global Positioning System (GPS) able of transmitting GPS coordinate data protocol to the at least one remote monitoring system;

at least one processor and computer responsively connectable to at least one magnetic card swipe device that can transmit via other communication devices to the at least one remote monitoring system for at least one of billing, debiting and crediting;

at least one processor and computer responsively connectable to at least one of audio and video devices and other communication systems to at least one of guide and control remotely a vehicle;

at least one processor and computer responsively connectable to at least one memory to record at least one of an audio and video signal, and data used to control a vehicle remotely; and

at least one two-way communication system including at least one security device or routine to condition the signal with at least one security protocol including at least one encryption technology to securely interface between at least one communication device and the remote location.

3. A real-time vehicle or equipment management system according to claim 1, wherein said plurality of external devices includes at least one of: an electrical actuating accessory and at least one peripheral device controlling automated remote control functions utilizing at least one of electricity, compressed air, gases, vacuums, hydraulic and fluid pressure.

4. A real-time vehicle or equipment management system according to claim 1, wherein said plurality of external devices includes at least one of: electro magnets solenoids, motors, mechanical or silicon relays, pistons, cylinders, pumps, valves, adjustable valves pindle valves cables, linkages levers, shifter forks, paws, ratchets, catches, couplers, spring returns, gearing or power transfer mechanisms cases, brake pads disk assemblies, or drums, clutches and/or interlocking drive mechanisms, spined hub collars and shafts.

5. A real-time vehicle or equipment management system according to claim 1, wherein said at least one of said plurality of external devices include a backup system to provide back up to any automated, remote control system.

6. A real-time vehicle or equipment management system according to claim 1, wherein said at least one of said plurality of external devices includes at least one of a coyote circuit and other circuit used to create a plug and play connector as a universal modality to interface with at least one of electrical parts, components, devices, C.O.T.S. personal products or different manufactures products.

7. A real-time vehicle or equipment management system according to claim 1, wherein said at least one of said plurality of external devices includes at least one application used in conjunction with a security system, home computer controller system, household equipment and utilities management system to organize, store, complete phone node contact and transmit data for utility and/or equipment use for any billing, personal records and/or taxing for same, as well as, provide services for repair and maintenance purposes.

8. A real-time vehicle or equipment management system according to claim 1, wherein said at least one of said plurality of external devices includes the function of operating at a specific location and not being transferrable to another location without authorization, and when transferred in an unauthorized manner, the at least one of said plurality of devices transmits an identification signal to report the location of the displaced equipment.

9. A real-time vehicle or equipment management system according to claim 1, wherein said at least one of said plurality of external devices are supported by a universal interface for separate C.O.T.S. products and accessories, the at least one of the plurality of external devices interfacing with said at least one processor via the at least one of the plurality of interface



protocols, providing the capability of the at least one of the external devices to be at least one of remotely controlled and remotely operated.

10. A real-time vehicle or equipment management system according to claim 1, wherein said primary focal node supports at least one of application specific software protocols and hardware systems for industry standards for recorded data as determined by at least one of codes, specifications, rules regulations, and laws, for at least one of vehicles, equipment or machinery use.

11. A real-time vehicle or equipment management system according to claim 1, wherein said real-time vehicle or equipment management system includes redundant remote storage in at least one remote location in at least one application specific industry standard protocol as determined by at least one of codes, specifications, rules, regulations, data handling procedures and laws for at least one of equipment, machinery and vehicle use.

12. A real-time vehicle or equipment management system according to claim 1, wherein said real-time vehicle or equipment management system is at least one of global network, web and Internet accessible to monitor remote control function in real time and to mass store data off-board as transmitted by the PFN and/or other machine messaging systems and to access the web for personal use from the PFN for E-mail messaging and/or remote tracking either personally, as commercial service and/or for legal and/or governmental reasons.

13. A real-time vehicle or equipment management system according to claim 1, wherein said real-time vehicle recording system is substantially stored in a stop and control box to prevent unauthorized access thereto and the vehicle.

14. A real-time vehicle or equipment management system according to claim 1, further comprising a payment mechanism in or on the vehicle, responsively connectable to said at least one processor, said payment mechanism collecting vehicle information and providing real-time billing, debiting or crediting from the vehicle, and retrieving at least one of a script or electronic signature from a card carrier, and verifying the identity of the card carrier via at least one of photograph, fingerprints, and identification.

15. A real-time vehicle or equipment management system according to claim 1, wherein said at least one processor performs at least one of the following functions:

remotely controlling at least one of robotic functions to activate and control vehicle operations, remotely billing for use of the vehicle, remotely operating at least one machine, evaluating and diagnosing computer or processor malfunctions, remotely ordering materials and service personnel to perform at least one of service and repairs, remotely performing price quotes for cost of the at least one of service and repairs, remotely performing repairs electronically, and remotely shutting down equipment;

remotely controlling data exchange representing a monetary exchange via a focal node to perform a secure and protected containment function of: to restrict unauthorized use of equipment, to record and preserve data in an acceptable legal manner, and to bill at least the vehicle user, thereby providing a total accountability system;

at least one of networking and communicating with at least one gateway to other computers and computer networks that manage data, said gateway determining whether the other computers and computer networks are to be at least one of networked and communicated with to further monitor and store data for at least one of billing, regulatory compliance and legal compliance, and optionally for at least one of social economic and environmental impact;

at least one of networking and communicating with at least one of other computers and computer networks that manage data, including at least one of vehicle location, equipment technical assistance, personal accounting for machine or equipment use, billing, debiting, crediting, vehicle operations, service and repairs; and

monitoring equipment for health and safety conditions potentially adversely affecting the public, including at least one of reckless driving, driver impairment, pollution, vehicle unsafety.

16. A real-time vehicle or equipment management system according to claim 1, wherein said at least one processor performs at least one of the following functions:

collecting machine message data from said real-time vehicle recording system used to compile data for a public media or web page, and transmitting the machine data thereto;

presenting the machine message data on at least one web page that originated from at least one equipment on said real-time vehicle or from a machine messaging network;

recording and reporting to a monitoring gateway for billing for highway use by the vehicle;

collecting and storing data corresponding to charging at least one electric vehicle;

reporting, recording and billing automatically using a real-time billing system in the vehicle corresponding to time a geographic area roadway is used;

determining impact on environment including roadways, using at least one sensor recording at least one of:

weight and emissions ratings for atmospheric impact type of at least one of fuel and energy used;

time of operational machine use;

amount of fuel or energy used;

type of waste product produced; and

amount of the waste product produced.

17. A real-time vehicle or equipment management system according to claim 1, wherein said at least one processor performs at least one of the following functions:



recording at least one of audio and video traffic vehicle impact, and recording and reporting to at least one remote monitoring system for at least one accident investigation and machine accidents in a data secure manner;

recording information used in insurance investigations to decide claims and assign liability;

determining liability and accountability to be used in legal proceedings and optionally to be used in determining safety parameters, rules, regulations and laws;

recording at least one of audio and video captured criminal incidents by activating unattended vehicle systems to report criminal events through remote control;

recording at least one of audio and video captured news events as witnessed by a machine system including at least one of weather conditions, and traffic conditions.

18. A real-time vehicle or equipment management system according to claim 1, further comprising at least one operations sensor recording information including at least one of operations of the vehicle, highway conditions, speed limits, driving conditions including speeding, reckless driving, drunken driving, road rage, pensive or inefficient driving, and wherein the information of the vehicle are received from said operation sensor and stored in said memory and downloaded to at least one of a remote monitoring system, a remote billing system, and a remote data analysis system.

19. A real-time vehicle or equipment management system according to claim 1, wherein storage of the information includes storage with two onboard and at least one offboard storage of the host piece of equipment, the offboard storage optionally including application specific Email or warning flag detailing an electronic serial number associated with a privately owned or personal E-mail address.

20. A real-time vehicle or equipment management system according to claim 1, wherein the PFN includes more than one purpose optionally billing for commercial service or for specific service of a machine and simultaneously gathering data on any incident or accident event or provide additional controls by off board control and/or management systems in an emergency or in the case of a compromised operator in real-time.

21. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein an electronic serial number (ESN) allows each element within the matrix to be securely and accurately tracked, inventoried or controlled, either through a local control loop or remotely, by an authorized application or agency.

22. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein an electronic serial number includes the basis for digital encryption of information passed between the PFN device and the controlling entity with local network processing nodes through public communications channels such as the phone lines or Internet initiated in many cases wirelessly from mobile PFNs accompanied by their Mobile Identification Number.

23. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein this programmable software and/or any other accountable software program that performs automated and remote control and/or robotics functions as a result of programming that can authorize, authenticate and preserves commands and save feedback data as a TRAC software program and proprietary to this technology and its nature and scope.

24. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein at least one non-volatile memory storage and controlled events are in secured environments so that it is highly tamper resistant through physical means and equally protected through electrical means and tamper resistant software programming to become an agreed upon standard for accountable reliable and trusted software commands and record keeping for passive and aggressive remote control and robotics to analyze, judge, evaluate, value, appraise and monitor, manage and control at least one of vehicle use, machine use, equipment use, facility or installation functions, perform financial transactions in real time and in stationary and mobile settings.

25. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein accountable data is provided to an E-mail address web site and/or through the use of the World Wide Web and/or Internet Protocol (IP) for at least one of financial purposes, government uses, service providers, social purposes, environmental purposes.

26. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein at least one of modular and programmable routines are determined by the existing hardware and operating system firmware or software for any application responsively connectable through any communication medium by querying each component device attached through a PFN/TRAC system and/or piece of equipment to determine if said connectable component is legitimate and cleared for safe public use.

27. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein a registry includes all applicable government agencies with their own access to the Registry and/or network with encrypted codes and Identity command strings which are communicative and also access for the general public and their Private Encrypted Identity codes (PINs, etc.) access to same said registry.

28. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein a registry is accessible by a plurality of manufacturers on a worldwide scale with a plurality of security protocols in the marketing of component, devices and equipment and manufacture must provide a program to be given authorization for sale, and wherein the registry will not activate either the component device and/or piece of equipment without authorization, and resale of the component device or piece of equipment will be requested upon each connectable and queried to respond to the nature of the new install as the registry is contacted and requested to activate the unit.

29. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein a registry including encryption on the Web will support any and all payment industry software.

31. (NEW) A real-time vehicle or equipment management system according to claim 1, wherein record keeping requires at least one of terminal and device electrical serial numbers and personal identification numbers as part of its authorization and authentication program with the time date and any geographic location coordinates or address of all the equipment and systems participating or performing entries or accessing any application folder or event file in storage at any location or part of the registry.

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34. (NEW) A real-time or equipment management system according to claim 1 that serves as an accountable end user instruction center or audio tutor to deliver E-learning and educational programming via the PFN TRAC System and discretely.

35. (NEW) A real-time or equipment management system according to claim 1 that can be converted to the highest government and military security protocols, e.g., DES and DET, for national security public safety, nation briefing functions.

36. (NEW) A real-time or equipment management system according to claim 1 that provides write one-time memory storage locally as a secure accountable function to track and identify the source of any tampering or hacking to the PFN/TRAC System.

37. (NEW) A real-time vehicle or equipment management system according to claim 1 that provides an accountable plug, play, and program interface and prioritizes, control of all on board equipment OEM electronics or carried on electronic devices interfaced with the vehicle or host equipment, and additionally records for at least one of: use of time, location, voice information or data transmitted in the application specific event recorder.